

Experiment Number: 996805

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Orange flower water**

CAS Number: **8030-28-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:08:29**

NTP Study Number:

996805

Study Result:

Negative

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Test Compound: Orange flower water

CAS Number: 8030-28-2

Date Report Requested: 09/15/2018

Time Report Requested: 10:08:29

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	119 ± 8.7	114 ± 12.3	144 ± 10.3	148 ± 5.5	130 ± 2.0
3.3	111 ± 9.0	124 ± 2.7			150 ± 9.7
10.0	120 ± 10.5	93 ± 1.5	134 ± 4.5		137 ± 14.0
33.0	110 ± 6.6	108 ± 13.3	126 ± 14.7	154 ± 7.9	136 ± 4.1
100.0	93 ± 2.8	114 ± 7.2	114 ± 17.5	135 ± 4.0	152 ± 7.3
333.0	28 ± 14.4 ^s	97 ± 5.7	109 ± 6.5	140 ± 4.6	135 ± 7.2
1000.0			70 ± 2.7 ^s	48 ± 4.4 ^s	
3333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	900 ± 19.9	545 ± 3.2			
Positive Control ⁴			600 ± 46.2		
Positive Control ⁵					
Positive Control ⁶				819 ± 20.0	693 ± 6.2

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	115 ± 11.4	145 ± 5.6
3.3		
10.0	104 ± 1.7	
33.0	101 ± 3.2	138 ± 4.0
100.0	105 ± 7.8	151 ± 7.8
333.0	91 ± 13.8	140 ± 7.5
1000.0	2 ± 1.9 ^s	123 ± 7.5
3333.0		Toxic
Trial Summary	Negative	Negative
Positive Control ²	652 ± 39.2	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		407 ± 6.6
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.2	12 ± 2.0	6 ± 0.7	11 ± 0.3	12 ± 0.7
3.3	13 ± 1.5	11 ± 0.9			
10.0	9 ± 1.5	12 ± 2.2	11 ± 1.2	14 ± 1.2	7 ± 1.5
33.0	9 ± 3.2	10 ± 0.3	9 ± 2.0	16 ± 1.8	11 ± 1.5
100.0	9 ± 1.8	13 ± 2.0	10 ± 2.5	19 ± 2.2	10 ± 2.0
333.0	0 ± 0.0 ^s	10 ± 1.3	11 ± 1.8	9 ± 2.2	9 ± 1.5
1000.0			7 ± 2.8 ^s	6 ± 1.5 ^s	5 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					121 ± 2.8
Positive Control ³		309 ± 17.1			
Positive Control ⁵					
Positive Control ⁷	237 ± 7.3				
Positive Control ⁶			148 ± 13.1	78 ± 1.2	

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Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9
3.3	
10.0	12 ± 1.5
33.0	15 ± 1.7
100.0	12 ± 3.0
333.0	15 ± 1.3
1000.0	2 ± 2.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	78 ± 3.2
Positive Control ⁷	
Positive Control ⁶	

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Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 10.2	129 ± 5.9	150 ± 7.5	233 ± 8.2	158 ± 0.9
3.3	142 ± 10.0	133 ± 2.8			
10.0	127 ± 1.2	111 ± 15.3	156 ± 5.1	224 ± 14.0	148 ± 1.8
33.0	140 ± 9.2	122 ± 11.9	144 ± 1.8	211 ± 6.2	162 ± 10.1
100.0	132 ± 5.0	98 ± 3.7	139 ± 7.5	208 ± 5.9	156 ± 7.1
333.0	1 ± 1.0 ^s	93 ± 5.1	107 ± 13.7	159 ± 4.2	147 ± 2.3
1000.0			9 ± 1.9 ^s	49 ± 24.6 ^s	58 ± 5.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					954 ± 76.7
Positive Control ⁶			1323 ± 35.5	808 ± 10.5	
Positive Control ⁸	417 ± 16.6	1591 ± 175.6			

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Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	205 ± 13.6
3.3	
10.0	211 ± 3.2
33.0	233 ± 5.5
100.0	209 ± 5.5
333.0	242 ± 11.3
1000.0	Toxic
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	894 ± 11.0
Positive Control ⁸	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	19 ± 0.6	14 ± 2.3	26 ± 3.1	29 ± 2.7	22 ± 0.7
3.3	20 ± 2.7	18 ± 1.5			29 ± 1.5
10.0	21 ± 2.8	16 ± 1.5	28 ± 0.3		20 ± 0.9
33.0	20 ± 2.0	18 ± 0.6	28 ± 1.5	26 ± 0.9	23 ± 2.1
100.0	21 ± 3.7	15 ± 2.1	24 ± 2.0	31 ± 2.3	26 ± 1.5
333.0	14 ± 3.5 ^s	16 ± 2.7	20 ± 3.4	29 ± 2.5	22 ± 2.7
1000.0			2 ± 1.2 ^s	13 ± 3.8 ^s	
3333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			269 ± 8.0		
Positive Control ⁵				371 ± 10.5	355 ± 17.1
Positive Control ⁷	251 ± 0.6	168 ± 36.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	29 ± 1.7	32 ± 2.0
3.3		
10.0	27 ± 2.2	
33.0	21 ± 1.5	29 ± 2.4
100.0	19 ± 1.2	27 ± 1.8
333.0	24 ± 3.5	34 ± 2.9
1000.0	3 ± 1.7 ^s	30 ± 3.6
3333.0		1 ± 0.3 ^s
Trial Summary	Negative	Negative
Positive Control ²	598 ± 43.9	
Positive Control ⁵		357 ± 12.7
Positive Control ⁷		

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

8: 24.0 ug/Plate 9-Aminoacridine

s: Slight Toxicity

**** END OF REPORT ****